This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims

Claims 1 - 3 ***(cancelled)***

4. ***(currently amended)*** A ~~**compound**~~ **radiopharmaceutical** according to claim ~~1~~ **47**, comprising 1-5 targeting moieties.

5. ***(currently amended)*** A ~~**compound**~~ **radiopharmaceutical** according to claim ~~1~~ **47**, comprising one targeting moiety.

Claims 6 - 11 ***(cancelled)***

12. ***(currently amended)*** A ~~**compound**~~ **radiopharmaceutical** according to claim ~~1~~ **47**, **wherein the linking group is of the formula:**

$$((W^1)_h\text{-}(CR^{13}R^{14})_g)_x\text{-}(Z)_k\text{-}((CR^{13a}R^{14a})_{g'}\text{-}(W^2)_{h'})_{x'};$$

W^1 is $C(=O)NR^{15}$;

h is 1;

g is 3;

R^{13} and R^{14} are independently H;

x is 1;

k is 0;

g' is 0;

h' is 1;

W^2 is NH; and

x' is 1.

13. ***(currently amended)*** A ~~**compound**~~ **radiopharmaceutical** according to claim ~~**10**~~ **47**, wherein **the linking group is of the formula:**

$$((W^1)_h\text{-}(CR^{13}R^{14})_g)_x\text{-}(Z)_k\text{-}((CR^{13a}R^{14a})_{g'}\text{-}(W^2)_{h'})_{x'};$$

x is 0;

k is 1;

Z is aryl substituted with 0-3 R^{16};

g' is 1;

W^2 is NH;

R^{13a} and R^{14a} are independently H;

h' is 1; and

x' is 1.

14. ***(currently amended)*** A ~~**compound**~~ **radiopharmaceutical** according to claim ~~**10**~~ **47**, wherein **the linking group is of the formula:**

$$((W^1)_h\text{-}(CR^{13}R^{14})_g)_x\text{-}(Z)_k\text{-}((CR^{13a}R^{14a})_{g'}\text{-}(W^2)_{h'})_{x'};$$

W^1 is $C(=O)NR^{15}$;

h is 1;

g is 2;

R^{13} and R^{14} are independently H;

x is 1;

k is 0;

g' is 1;

R^{13a} and R^{14a} are independently H; or $C_{1\text{-}5}$ alkyl substituted with 0-3 R^{16};

R^{16} is SO_3H;

W^2 is NHC(=O) or NH;

h' is 1; and

x' is 2.

15. ***(cancelled)***

16. ***(currently amended)*** A ~~**compound**~~ **radiopharmaceutical** according to claim ~~**10**~~ **47**, wherein:

x is 0;

k is 0;

g' is 3;

h' is 1;

W^2 is NH; and

x' is 1.

17. ***(cancelled)***

18. ***(currently amended)*** A ~~**compound**~~ **radiopharmaceutical** according to claim ~~**10**~~ **47**, wherein **the linking group is of the formula:**

$$((W^1)_h\text{-}(CR^{13}R^{14})_g)_x\text{-}(Z)_k\text{-}((CR^{13a}R^{14a})_{g'}\text{-}(W^2)_{h'})_{x'};$$

W^1 is C=O;

h is 0, 1, or 2;

g is 2;

R^{13} and R^{14} are ~~**independently**~~ H;

x is 0, 1, 2, 3, 4, or 5;

k is 0;

g' is 0;

h' is 1;

W^2 is NH; and

x' is 1.

19. ***(currently amended)*** A ~~**compound**~~ **radiopharmaceutical** according to claim ~~**10**~~ **47**, wherein the linking group is absent.

Claims 20 - 46 ***(cancelled)***

47. ***(currently amended)*** A radiopharmaceutical comprising a compound ~~**of claim 1**~~ and a cytotoxic radioisotope which is complexed to the chelator;

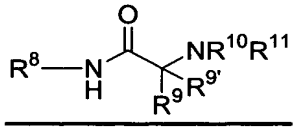
wherein said compound comprises:

i) 1-10 targeting moieties;

ii) a chelator; and

iii) 0-1 linking groups between the targeting moiety and chelator;

wherein the targeting moiety is a matrix metalloproteinase inhibitor having an inhibitory constant K_i of <100 nM of the formulae (Ia) or (Ib):



wherein,

R^8 is independently at each occurrence OH or phenyl, optionally substituted with a bond to the linking group, provided that when R^8 is phenyl, R^{10} is—C(=O)-CHR^{12}-NH-CH(CH_3)-COOH;

R^9 and $R^{9'}$ are independently H, C_{1-6} alkyl optionally substituted with a bond to the linking group, or are taken together with the carbon atom to which R^9 and $R^{9'}$ are attached to form a 5-7 atom saturated, partially unsaturated or aromatic ring system containing 0-3 heteroatoms selected from O, N, SO_2 and S, said ring system substituted with R^6 and optionally substituted with a bond to the linking group;

R^{10} and R^{11} are independently H, or C_{1-6} alkyl optionally substituted with a bond to the linking group, or are taken together with the nitrogen atom to which they are attached to form a 5-7 atom saturated, partially unsaturated or aromatic ring system containing 0-3 heteroatoms selected from O, N, SO_2 and S, said ring system optionally substituted a bond to the linking;

or alternatively,

R^9 and R^{10} are taken together with the nitrogen atom and carbon atom to which they are attached to form a 5-7 atom saturated, partially unsaturated or aromatic ring system containing 0-3 additional heteroatoms selected from O, N, SO_2 and S, said ring system optionally substituted with a bond to the linking group; and

R^{12} is independently C_{1-20} alkyl.

Claims 48 - 49 ***(cancelled)***

50. ***(currently amended)*** A radiopharmaceutical ~~**according to claim 49 wherein the compound is**~~ selected from the group consisting of:

2-{[5-(3-{2-[(6-Hydroxycarbamoyl-7-isobutyl-8-oxo-2-oxa-9-aza-bicyclo[10.2.2]hexadeca-1(15),12(16),13-triene-10-carbonyl)-amino]-acetylamino}-propylcarbamoyl)-pyridin-2-yl]-hydrazonomethyl}-benzenesulfonic acid; and

2-{[5-(4-{[(6-Hydroxycarbamoyl-7-isobutyl-8-oxo-2-oxa-9-aza-bicyclo[10.2.2]hexadeca-1(15),12(16),13-triene-10-carbonyl)-amino]-methyl}-benzylcarbamoyl)-pyridin-2-yl]-hydrazonomethyl}-benzenesulfonic acid; and

wherein the cytotoxic radioisotope is ^{99m}Tc.

51. ***(original)*** A radiopharmaceutical according to claim 47 wherein the cytotoxic radioisotope is selected from the group consisting of beta particle emitters, alpha particle emitters, and Auger electron emitters.

52. ***(original)*** A radiopharmaceutical according to claim 47 wherein the cytotoxic radioisotope is selected from the group consisting of: ^{186}Re, ^{188}Re, ^{153}Sm, ^{166}Ho, ^{177}Lu, ^{149}Pm, ^{90}Y, ^{212}Bi, ^{103}Pd, ^{109}Pd, ^{159}Gd, ^{140}La, ^{198}Au, ^{199}Au, ^{169}Yb, ^{175}Yb, ^{165}Dy, ^{166}Dy, ^{67}Cu, ^{105}Rh, ^{111}Ag, and ^{192}Ir.

53. ***(original)*** A radiopharmaceutical according to claim 47 wherein the cytotoxic radioisotope is selected from the group consisting of: ^{186}Re, ^{188}Re, ^{153}Sm, ^{166}Ho, ^{177}Lu, ^{149}Pm, ^{90}Y, ^{212}Bi, ^{103}Pd, and ^{105}Rh.

54. ***(original)*** A radiopharmaceutical according to claim 47 wherein the cytotoxic radioisotope is selected from the group consisting of: ^{186}Re, ^{188}Re, ^{153}Sm, ^{166}Ho, ^{177}Lu, ^{149}Pm, ^{90}Y, and ^{212}Bi.

55. ***(cancelled)***

56. ***(previously amended)*** A radiopharmaceutical composition comprising a radiopharmaceutical of claim 47, or a pharmaceutically acceptable salt thereof, and a pharmaceutically acceptable carrier.

Claims 57 - 60 ***(cancelled)***

61. ***(previously amended)*** A radiopharmaceutical kit comprising a radiopharmaceutical of claim 47, or a pharmaceutically acceptable salt form thereof and a pharmaceutically acceptable carrier.

62. ***(currently amended)*** A kit of ~~**Claim 60**~~ **claim 61** further comprising a stabilizer.

63. ***(original)*** A radiopharmaceutical kit according to claim 61, wherein the radioisotope is ^{186}Re or ^{188}Re and the kit further comprises one or more ancillary ligands and a reducing agent.

64. ***(original)*** A radiopharmaceutical kit according to claim 63, wherein the ancillary ligands are tricine and a phosphine.

Claims 65 - 67 ***(cancelled)***

68. ***(previously amended)*** A method of treating a pathological disorder mediated by a matrix metalloproteinase in a patient which comprises ~~**administring**~~ **administering** to a patient in need thereof a therapeutically effective amount of a radiopharmaceutical according to claim 47 and a pharmaceutically acceptable carrier.

Claims 69 - 71 ***(cancelled)***

72. ***(original)*** A method of inhibiting proliferation of cancer cells, comprising contacting the cancer cells with a proliferation-inhibitory amount of a radiopharmaceutical of claim 47.

73. ***(previously amended)*** A method of claim 68, wherein the matrix metalloproteinase is selected from the group consisting of: MMP-1, MMP-2, MMP-3, MMP-9, and MMP-14.

74. ***(previously amended)*** A method of claim 68 wherein the matrix metalloproteinase is selected from the group consisting of: MMP-2, MMP-9, and MMP-14.

Claims 75 - 77 ***(cancelled)***

78. ***(currently amended)*** A process for the preparation of a radiopharmaceutical, said process comprising generating a macrostructure from a plurality of molecular components wherein the plurality of components ~~**includes a compound of claim 1 and a cytotoxic radioisotope**~~ **comprises a radiopharmaceutical according to claim 47**.

79. ***(cancelled)***